AUTODOC CLUB

# How to change spark plugs on **BMW E82** – replacement guide

## VIDEO TUTORIAL

**Important!**

This replacement procedure can be used for:
BMW 7 (F01, F02, F03, F04) 730i 3.0, BMW X3 (F25) xDrive 28 i, BMW 5 Saloon (F10) 523i 2.5, BMW 6 Coupe (E63) 630i 3.0, BMW 6 Convertible (E64) 630i 3.0, BMW 3 Saloon (E90) 325i 2.5, BMW 3 Saloon (E90) 330i 3.0, BMW 1 Hatchback (E81) 130i 3.0, BMW 3 Touring (E91) 325i 2.5, BMW 3 Touring (E91) 330i 3.0, BMW 5 Saloon (E60) 530i 3.0, BMW 5 Touring (E61) 530i 3.0, BMW 5 Saloon (E60) 523i 2.5, BMW 5 Touring (E61) 523i 2.5, BMW 5 Saloon (E60) 525i 2.5, (+ 35)

The steps may slightly vary depending on the car design.

# REPLACEMENT: SPARK PLUGS – BMW E82. TOOLS YOU'LL NEED:

- Electronic spray
- High-temperature anti-seize lubricant
- HEX bit no.H5.
- Drive socket # 8
- Spark plug socket # 16
- Ratchet wrench
- Torque wrench
- Flat Screwdriver
- Microfibre towel
- Fender cover

BUY TOOLS

Replacement: spark plugs – BMW E82. AUTODOC experts recommend:

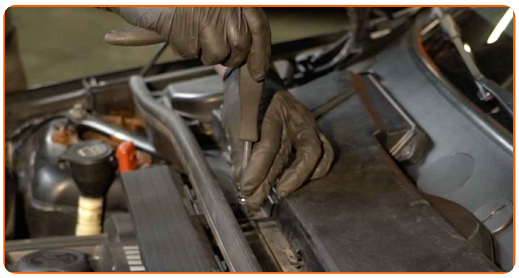
- The replacement procedure is the same for all spark plugs.
- Warning! Shut down the engine before starting any work – BMW E82.

## CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the hood.

2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.

3 Unscrew the fasteners of the cabin filter housing cover. Use a drive socket #8. Use a ratchet wrench.

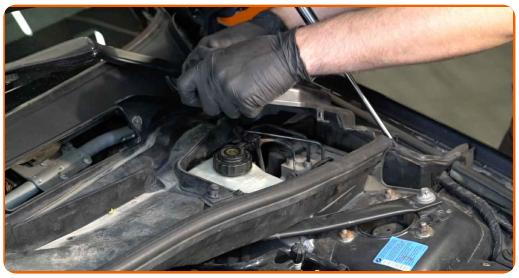


4 Remove the cabin filter housing cover.

## Replacement: spark plugs – BMW E82. Tip:

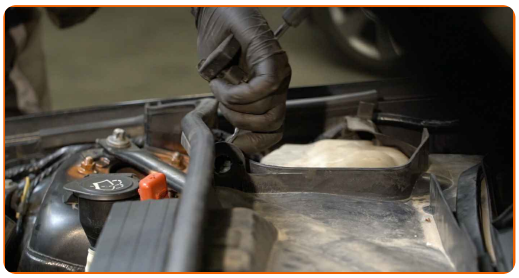
- Do not apply excessive force when removing the part. Otherwise you may damage it.

5 Remove the wiper arm covers.

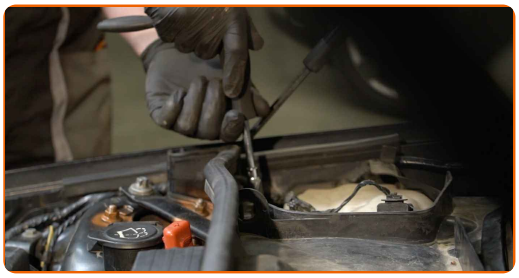


6 Detach the connectors from the climate control sensors.

7 Remove the climate control sensors.

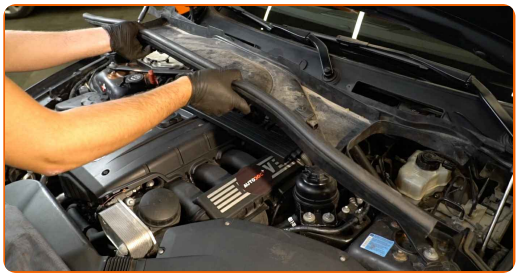


**8** Unscrew the fasteners of the lower part of the scuttle panel. Use a drive socket #8. Use a ratchet wrench.

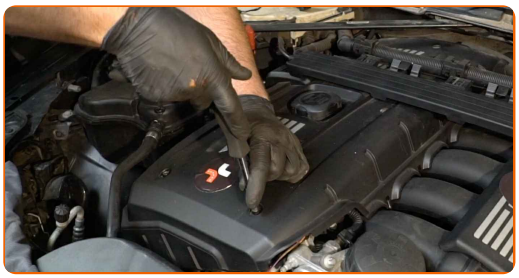


**9** Detach the cable duct from the upper part of the microfilter housing. Use a flat screwdriver.

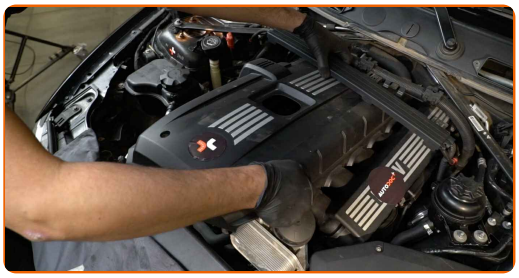
**10** Remove the lower part of the scuttle panel.



**11** Unscrew the engine cover fastener. Use HEX No.H5. Use a ratchet wrench.



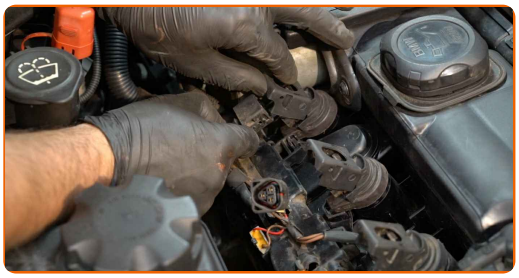
**12** Remove the engine cover.



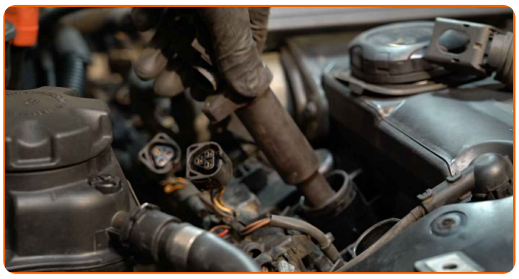
## AUTODOC recommends:

- Replacement: spark plugs – BMW E82. Do not use excessive force when removing the part as this may damage it.

**13** Unplug the connectors from the ignition coils.



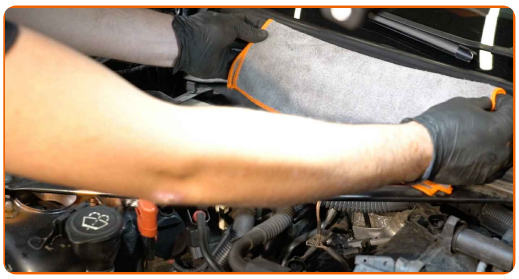
**14** Take out the ignition coil from the spark plug well.



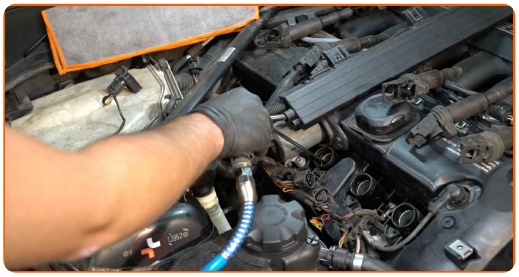
## Replacement: spark plugs – BMW E82. AUTODOC recommends:

- Remember the sequence of steps for ignition coil demounting.

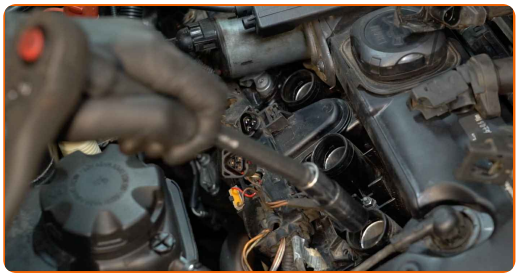
**15** Cover the cabin filter air ducts with a microfibre cloth to keep dirt and dust out.



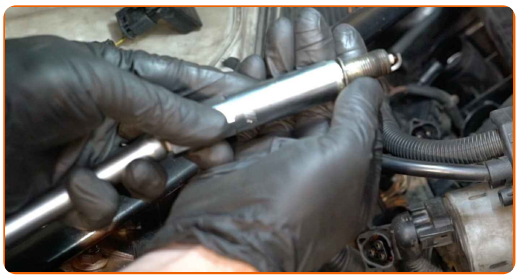
**16** Clean dirt, dust and debris from inside the spark plug wells.



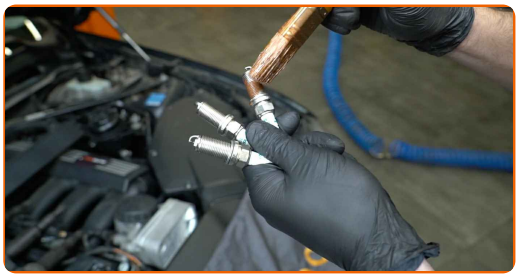
**17** Unscrew the spark plugs. Use the spark plug socket #16. Use a ratchet wrench.



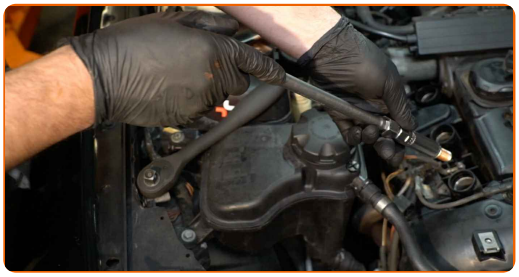
**18** Take out the spark plugs. Use the spark plug socket #16.



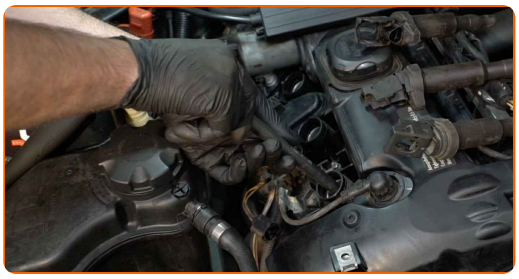
**19** Apply a thin layer of a special high temperature anti-seize lubricant to the threads of the new spark plugs.



**20** Install the new spark plugs into their mounting seats. Use the spark plug socket #16.



**21** Screw new spark plugs and tighten them. Use the spark plug socket #16. Use a torque wrench. Tighten it to 27 nm torque.



## Replacement: spark plugs – BMW E82. Tip from AUTODOC experts:

- Don't tighten the plugs with excessive force. Exceeding tightening torque can damage the thread connection.
- Be careful when working with a spark plug wrench. Its skewing can cause damage to the threaded connection.

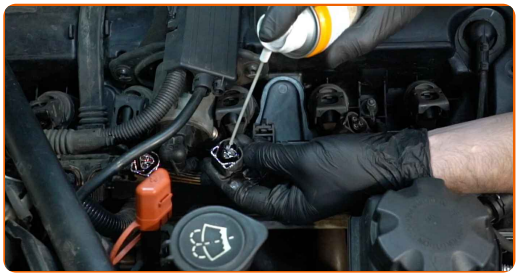
**22** Treat the ignition coil tips. Use high-temperature grease. Use a flat screwdriver.

**23** Install the ignition coils to the spark plug wells. Make sure you hear a click indicating that it is locked in place.

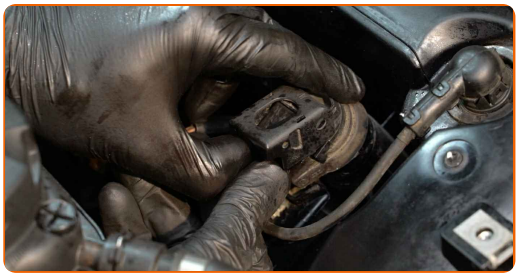
## AUTODOC recommends:

- Replacement: spark plugs – BMW E82. Follow the installation steps.

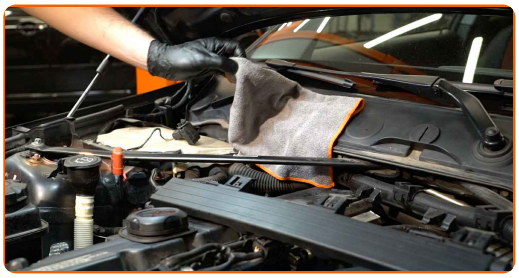
**24** Treat the ignition coil connector with electronic spray. The spray will protect the electrical contacts from corrosion, oxidation, and will reduce the contact resistance.



**25** Plug in the connectors of the ignition coils.



**26** Remove the microfibre cloth from the cabin filter air ducts.

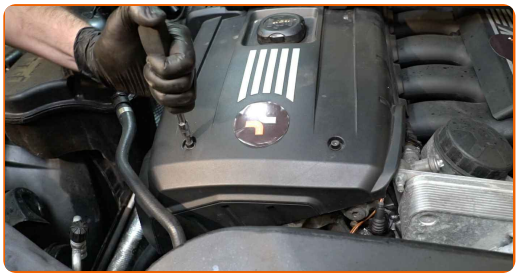


**27** Install the engine cover and secure it.

## AUTODOC recommends:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Replacement: spark plugs – BMW E82. Do not use excessive force during installation. This may damage the fasteners.

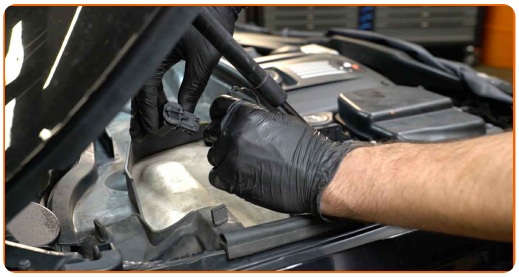
**28** Screw in the engine cover fasteners. Use HEX No.H5. Use a ratchet wrench.



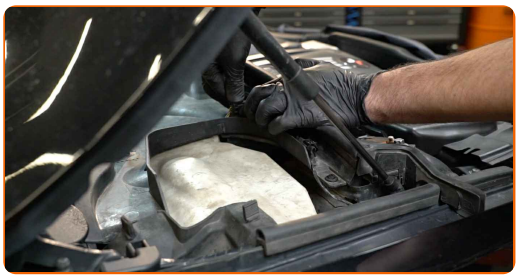
29 Reinstall the lower part of the scuttle panel.

30 Screw in the fasteners of the lower part of the scuttle panel. Use a drive socket #8. Use a ratchet wrench.

31 Install the climate control sensors.

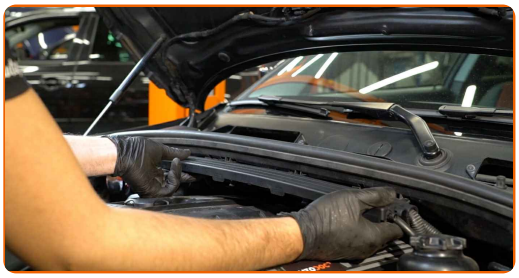


32 Attach the connectors of the climate control sensors.

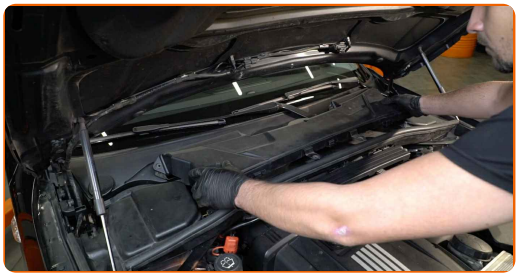


33 Install the wiper arm covers.

**34** Attach the cable duct to the upper part of the microfilter housing.



**35** Reinstall the cabin filter housing cover. Make sure you hear a click indicating that it is locked in place.



## Replacement: spark plugs – BMW E82. Tip from AUTODOC:

- Do not apply excessive force when installing the part. Otherwise you may damage the fasteners.

**36** Screw in the fasteners of the cabin filter housing cover. Use a drive socket #8. Use a ratchet wrench.

**37** Remove the fender protection cover.

38 Close the hood.

39 Run the engine for a few minutes. This is necessary in order to make sure that the component operates properly.

40 Shut off the engine.

## WELL DONE!

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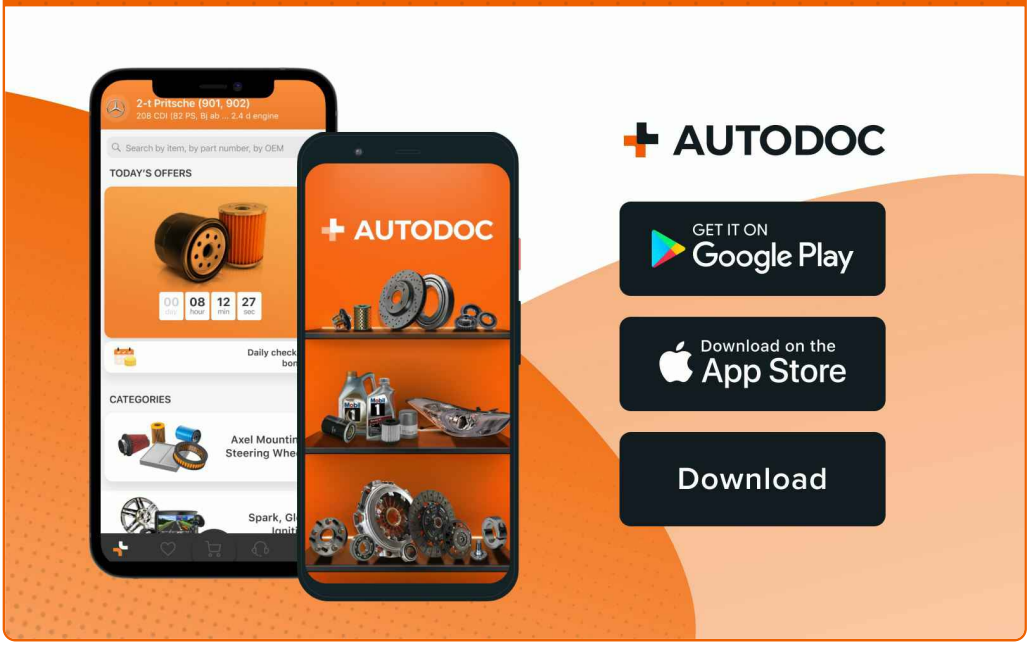


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